

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080060 A1

(51) International Patent Classification⁷: B29B 17/00,
13/02, B09B 3/00, B29C 39/00

(21) International Application Number:
PCT/GB2005/000493

(22) International Filing Date: 11 February 2005 (11.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0403269.4 13 February 2004 (13.02.2004) GB

(71) Applicant and

(72) Inventor (for all designated States except US):
SCHEERES, David, J. [GB/GB]; Paskeston Hall,
Cosheston, Pembrokeshire SA72 4SF (GB).

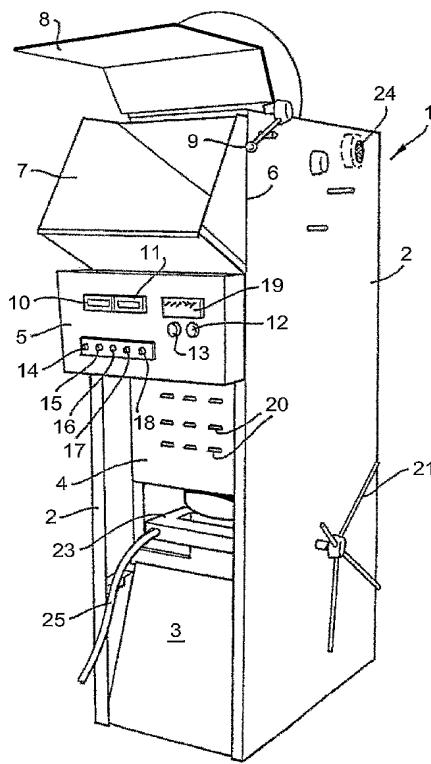
(74) Agents: KELTIE, David, Arthur et al.; David Keltie Associates, Fleet Place House, 2 Fleet Place, London EC4M 7ET (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: TREATMENT OF PLASTIC WASTE



(57) Abstract: From one aspect, there is provided a method of treating a volume of plastics waste, the method including providing a volume of plastics waste comprising one of more plastics types, the or each plastics types having a melting point and a flash point and providing a heating zone having an entry zone through which the volume of plastics waste is feedable. The heating zone is brought to an operating temperature so as to avoid carbonisation of the plastics waste and the plastics waste is heated so that at least some of the plastics is melted to form a flowable plastics melt. The flowable plastics melt is caused to flow through the outlet under the influence of gravity into a cooling zone during which gas is allowed to escape to facilitate the flow. From another aspect there is provided an apparatus for treating a volume of plastics waste including a melt chamber defining a heating zone and heating means for heating the volume of plastics waste. The heating means includes a plurality of heating members which extend transversely to the flow of plastics waste and which are arranged to create a non-uniform thermal surface in the region of an inlet of the melt chamber.



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.